

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
12 May 2005 (12.05.2005)

PCT

(10) International Publication Number
WO 2005/041943 A1

(51) International Patent Classification⁷: **A61K 9/70**, (74) Agents: CURTIS, Philip, Anthony et al.; A A Thornton & Co., 235 High Holborn, London WC1V 7LE (GB).

(21) International Application Number:
PCT/GB2004/004487

(22) International Filing Date: 21 October 2004 (21.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1122/MUM/2003 23 October 2003 (23.10.2003) IN

(71) Applicant (for all designated States except US): **CIPLA LIMITED [IN/IN]**; 289 Bellasis Road, Mumbai Central, Mumbai 400 008, Maharashtra (IN).

(71) Applicant (for MW only): **WAIN, Christopher, Paul [GB/GB]**; 235 High Holborn, London WC1V 7LE (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ULLA, Amar [IN/IN]**; 131 Maker Towers "L", 13th floor, Cuffe Parade, Colaba, Mumbai 400 005, Maharashtra (IN). **MALHOTRA, Geena [IN/IN]**; 4 Anderson House, Opposite Mazgaon Post Office, Mazgaon, Mumbai 400 010, Maharashtra (IN).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/041943 A1

(54) Title: TRANSDERMAL PHARMACEUTICAL SPRAY FORMULATIONS COMPRISING A VP/VA COPOLYMER AND A NON-AQUEOUS VEHICLE

(57) Abstract: Transdermal spray formulations containing a pharmaceutically active agent and methods for administering the same are provided. The formulations comprise the pharmaceutically active agent, a VP/VA copolymer and a non-aqueous vehicle. The formulations further comprise an anti-nucleating agent to prevent recrystallization of the pharmaceutically active agent and a penetration enhancer to increase the rate of drug delivery through the skin. Upon application to the skin, the present formulations dry to provide a film at the site of treatment.